

Please add claims 16-20, as follows:

---16. The anti-inflammatory composition according to claim 14 wherein formulated for rheumatology.

17. Extract according to claim 7, wherein the separation is obtained using a cellulosic membrane with pore dimensions between 1,000 and 50,000 daltons.

18. Extract according to claim 7, wherein the precipitation is obtained using ethanol.

19. A dietetic composition against oxidative stress comprising the extract according to claim 6.

20. A food product containing the extract according to claim 6 as a preservative.---

REMARKS

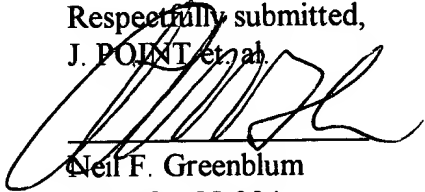
Entry of this Supplemental Preliminary Amendment is respectfully requested prior to examination of the application.

Applicants respectfully note that, upon entry of the present amendment, claims 1-15 will be amended, and claims 16-20 will be added, whereby claims 1-20 will be pending. Claim 1 is the sole independent claim.

Applicants further note that the present amendment is being presented to even more clearly recite Applicants' invention by placing the claimed subject matter even more in accordance with standard U.S. practice and idiomatic English, and no estoppel should be deemed attached thereto.

Should there be any questions, the Examiner is invited to contact the undersigned at the below listed number.

Respectfully submitted,
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April 8, 2002
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APPENDIX

Marked-Up Copy of Specification Amendments:

Marked-up copy of paragraphs [0002] to [0005]:

[0002] Numerous works have already been done, in the cosmetic [filed] field, to develop antiradical substances capable of slowing skin aging. Concurrently, [researches have] research has been conducted in the medical sector to obtain products with anti-inflammatory activity, adapted to be used in particular in rheumatology and for the treatment of pathologies associated with oxidative stress and affecting the digestive and cardiovascular systems.

[0003] Over the past few years, the [researches] research undertaken [have] has been deliberately oriented toward the plant sector in order to avoid the infectious substances that may be found in animal extracts. Among these researches, the culture of microalgae has led to the obtaining of interesting products from the algal biomass.

[0004] [The Patent No.] EP 0 437 393 ⁺discloses a method and a photobioreactor adapted to the production and extraction of antioxidants from a culture of microorganisms, the method consisting of culturing in the photobioreactor microalgae suspended in a culture medium, the oxygen produced by the microalgae by photosynthesis being collected and then reinjected into the culture medium, separating the microalgae from the culture medium, dissolving them, grinding the solution, adding a solvent for solubilizing the antioxidants, and separating the liquid phases present.

[0005] [The Patent No.] EP 0 628 629 describes a process for the production and extraction of thermostable superoxide dismutases from a culture of microorganisms suspended in a culture medium and selected from among microalgae and cyanobacteria, this process consisting of culturing in a photoreactor aerobic, photosynthetic thermophilic microorganisms producing oxygen, and extracting

the superoxide dismutases from the culture medium by cellular crushing, ultrafiltration and selective precipitation.

Marked-up copy of paragraph [0012]:

[0012] The supply of CO₂ for the culture medium, as well as the agitation necessary for a good development of the microalgae, can be ensured by a bubbling of air enriched with compressed CO₂ or by any other equivalent [means] technique.

Marked-up copy of paragraph [0014]:

[0014] Next, the algae are separated from the culture medium by centrifuging or filtering. A filtering by [means of] an appropriate filter then makes it possible to separate the antioxidant extract.

Marked-up copy of paragraph [0022]:

[0022] The separation of the portion containing the SOD-like can be carried out by precipitation by [means of] a solvent such as ethanol, or by separation by [means of] an organic membrane such as a cellulose membrane, with pore dimensions comprised between 1,000 and 50,000 daltons. Two extracts are obtained, of which, containing the SOD-like, has an antioxidant and antiradical activity, whereas the other, containing the sulphated polysaccharides, has a tissue regeneration activity.

Marked-up copy of paragraph [0025]:

[0025] After 12 days, when the cellular density is optimum, 100 mg/liter, or 15 g of [KHCO₃] KHCO₃ is added; then the reactor is closed and the culture is allowed to continue for two days in order to create a metabolic forcing.

Marked-up copy of paragraph [0027]:

[0027] The extract thus obtained has a SOD like content of 30 U/ml, measured with the SOD-525 kit, and a sulphated polysaccharides (SP) content of 1 mg/ml.

Marked-Up Copy of Amended Claims:

1. (Amended) [Method] A method of obtaining [, from the culture medium of microalgae,] a heat-stable extract having [an] antioxidant and wound-healing activity from a culture medium of microalgae, [consisting of] comprising first culturing said microalgae in a photobioreactor subject to [an] appropriate lighting and [to] controlled conditions of temperature, pH, and [the] supply of carbon dioxide [CO₂], adding 100 mg/l of potassium bicarbonate to the culture medium after a period of six to twelve days, then closing the photobioreactor for a period of one to three days to obtain [subjecting them to] oxygen supersaturation, then separating the [algae] microalgae from the culture medium by centrifuging, and finally filtering said culture medium on an appropriate filter for separating said extract [,

characterized in that after a period of six to twelve days, 100 mg/l of potassium bicarbonate are added to the culture medium, then the reactor is closed for a period of one to three days to obtain the oxygen supersaturation].

2. (Amended) [Method] The method according to claim 1, [characterized in that] wherein the lighting of the photobioreactor is [obtained] by solar energy.

3. (Amended) [Method] The method according to claim 1, [characterized in that] wherein the supply of [CO₂] carbon dioxide is carried out by bubbling of air enriched with compressed [CO₂] carbon dioxide.

4. (Amended) [Method] The method according to claim 1, [characterized in that] wherein the filtering of the culture medium after the centrifuging, adapted to separate the [algae] microalgae therefrom, is carried out on a filter [constituted] composed of cellulosic membrane with pore dimensions [comprised] between 1 and 1.5 μ m.

5. (Twice Amended) Extract with antioxidant and wound-healing properties obtained according to the method [which is the object of] according to claim 1, [characterized in that it contains] containing at least 30 U/ml of superoxide dismutases like and at least 1 mg/ml of sulphated polysaccharides.

6. (Amended) Extract with antiradical properties obtained from the extract according to claim 5 by precipitation by [means of] a solvent or by separation by [means of] a cellulosic membrane, [characterized in that it contains] said extract containing at least 30 U/ml of [SOD] superoxide dismutases like.

7. (Amended) Extract with tissue regeneration properties obtained from the extract according to claim 5, by precipitation by [means of] a solvent or by separation by [means of] a cellulosic membrane, [characterized in that it contains] said extract containing at least 1 mg/ml of sulphated polysaccharides.

8. (Twice Amended) Extract according to claim 6, [characterized in that] wherein the separation is obtained [by means of] using a cellulosic membrane with pore dimensions [comprised] between 1,000 and 50,000 daltons.

9. (Twice Amended) Extract according to claim 6, [characterized in that] wherein the precipitation is obtained [by means of] using ethanol.

10. (Amended) [Use of] A polymer comprising the extract according to claim 5 [,] as an antioxidant [in the manufacture of polymers].

11. (Twice Amended) [Use of] A dietetic composition against oxidative stress comprising the extract according to claim 5 [, in the preparation of dietetic compositions against oxidative stress].

12. (Twice Amended) [Use of] A food product containing the extract according to claim 5
[, for the preservation of food products] as a preservative.

13. (Amended) [Use of] A cosmetic product adapted to slow skin aging containing the
extract according to claim 5 [in the preparation of cosmetic products products adapted to slow skin
aging].

14. (Amended) [Use of] Anti-inflammatory composition containing the extract according to
claim 5 [in the preparation of anti-inflammatory compositions, especially in rheumatology].

15. (Amended) [Use of] A composition adapted to biological control of plant parasites
containing the extract according to claim 7 [in the preparation of compositions adapted to the
biological control of plant parasites].